

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
ILLINC.026C1APPLICATION NO.
10/638,173INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

JUL 19 2004

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Kain et al.FILING DATE
August 6, 2003GROUP
3747

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
BF	1	5,445,934	08/1995	Fodor et al.			
	2	5,545,531	08/1996	Rava et al.			
	3	5,578,832	11/1996	Trulson et al.			
	4	5,733,729	03/1998	Lipshutz et al.			
	5	5,744,305	04/1998	Fodor et al.			
	6	5,795,716	08/1998	Chee et al.			
	7	5,800,992	09/1998	Fodor et al.			
	8	5,834,758	11/1998	Trulson et al.			
	9	5,871,928	02/1999	Fodor et al.			
	10	5,874,219	02/1999	Rava et al.			
	11	5,935,793	08/1999	Wong			
	12	5,974,164	10/1999	Chee			
	13	6,025,601	02/2000	Trulson et al.			
	14	6,040,138	03/2000	Lockhart et al.			
	15	6,066,454	05/2000	Lipshutz et al.			
	16	6,124,102	09/2000	Fodor et al.			
	17	6,185,561 B1	02/2001	Balaban et al.			
	18	6,188,783 B1	02/2001	Balaban et al.			
	19	6,197,506 B1	03/2001	Fodor et al.			
	20	6,225,625 B1	05/2001	Pirung et al.			
	21	6,229,911 B1	05/2001	Balaban et al.			
	22	6,261,776 B1	07/2001	Pirung et al.			
	23	6,291,183 B1	09/2001	Pirung et al.			
	24	6,308,170 B1	10/2001	Balaban			
	25	6,309,822 B1	10/2001	Fodor et al.			
	26	6,346,413 B1	02/2002	Fodor et al.			
	27	6,355,432 B1	03/2002	Fodor et al.			

EXAMINER

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04/18/2006

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BF	28	6,399,365 B2	06/2002	Besemer et al.			
	29	6,403,320 B1	06/2002	Read et al.			
	30	6,416,952 B1	07/2002	Pirung et al.			
	31	6,440,677 B2	08/2002	Lipshutz et al.			
	32	6,451,536 B1	09/2002	Fodor et al.			
	33	6,491,871 B1	12/2002	Fodor et al.			
	34	6,544,739 B1	04/2003	Fodor et al.			
	35	6,576,424 B2	06/2003	Fodor et al.			
	36	6,604,902 B2	08/2002	Norris et al.			
	37	6,610,482 B1	08/2003	Fodor et al.			
	38	6,646,243 B2	11/2003	Pirung et al.			

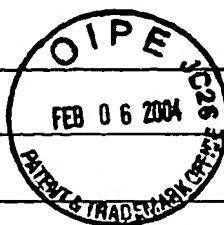
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)						

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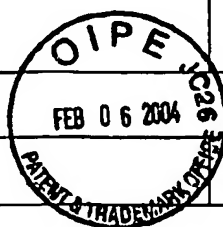
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BF	1	4,200,110	04/1980	Peterson et al.			
	2	4,499,052	02/1985	Fulwyler			
	3	4,682,895	07/1987	Costello			
	4	4,785,814	11/1988	Kane			
	5	4,822,746	04/1989	Walt			
	6	4,824,789	04/1989	Yafuso et al.			
	7	4,999,306	03/1991	Yafuso et al.			
	8	5,002,867	03/1991	Macevitz			
	9	5,028,545	07/1991	Soini			
	10	5,105,305	04/1992	Betzig et al			

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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BF	11	EP 0 269 764	06/1998	Europe				
↓	12	EP 0 392 546	10/1990	Europe				
	13	EP 0 478 319	04/1992	Europe				
	14	EP 0 723 146	07/1996	Europe				
	15	WO 89/11101	11/1989	PCT				
	16	WO 93/02360	02/1993	PCT				

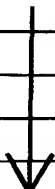
EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
BF	17	Abel et al., <u>Fiber-Optic Evanescent Wave Biosensor for the Detection of Oligonucleotides</u> , <i>Anal. Chem.</i> 68:2905-2912 (1996)
	18	Anonymous, <u>Microsphere Selection Guide</u> , <i>Bang Laboratories, (Fisher, In)</i> September 1998
	19	Anonymous, <u>Fluorescent Microspheres</u> , <i>Tech. Note 19, Bang Laboratories, (Fisher, In)</i> February 1997
	20	Bangs, L.B., <u>Immunological Applications of Microspheres</u> , <i>The Latex Course, Bangs Laboratories (Carmel, IN)</i> April 1996
	21	Barnard et al., <u>A Fibre-Optic Chemical Sensor with Discriminating Sites</u> , <i>Nature</i> 353:338-340 (1991)

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BF	22	5,114,864	05/1992	Walt			
	23	5,132,242	07/1992	Cheung			
	24	5,143,853	09/1992	Walt			
	25	5,194,300	03/1993	Cheung			
	26	5,244,636	09/1993	Walt et al.			
	27	5,244,813	09/1993	Walt et al.			
	28	5,250,264	10/1993	Walt et al.			
	29	5,252,494	10/1993	Walt			
	30	5,298,741	03/1994	Walt et al.			
	31	5,302,509	04/1994	Cheeseman			

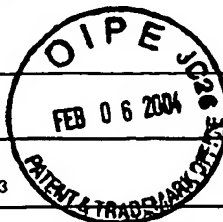
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
BF	32	WO 93/25563	12/1993	PCT				
	33	WO 96/03212	02/1996	PCT				
	34	WO 97/14028	04/1997	PCT				
	35	WO 97/14928	04/1997	PCT				
	36	WO 97/31256	08/1997	PCT				
	37	WO 97/40385	10/1997	PCT				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)		
BF	38	Chen et al., <u>A Microsphere-Based Assay for Multiplexed Single Nucleotide Polymorphism Analysis Using Single Base Chain Extension</u> , <i>Genome Research</i> 10(4):549-557 (2000)	
	39	Czarnik, <u>Illuminating the SNP Genomic Code</u> , <i>Modern Drug Discovery</i> 1(2):49-55 (1998)	
	40	Drmanac et al., <u>Sequencing by Oligonucleotide Hybridization: A Promising Framework in Decoding of the Genome Project</u> , <i>The First International Conf. on Electrophoresis</i> , Apr. 10-13, 1990 Florida State Univ.	
	41	Drmanac et al., <u>Prospects for a Miniaturized, Simplified and Frugal Human Genome Project</u> , <i>Scientia Yugoslavica</i> 16(1-2):97-107 (1990)	
	42	Drmanac, et al., <u>Sequencing by Hybridization (SBH) with Oligonucleotide Probes as an Integral Approach for the Analysis of Complex Genomes</u> , <i>Inter. J. of Genome Research</i> 1(1):59-79 (1992)	

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BF	43	5,320,814	06/1994	Walt et al.			
	44	5,357,590	10/1994	Auracher			
	45	5,380,489	01/1995	Sutton et al.			
	46	5,435,724	07/1995	Goodman et al.			
	47	5,474,895	12/1995	Ishii et al.			
	48	5,481,629	01/1996	Tabuchi			
	49	5,494,798	02/1996	Gerdt et al.			
	50	5,494,810	02/1996	Barany et al.			
	51	5,496,997	03/1996	Pope			
	52	5,512,490	04/1996	Walt et al.			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
BF	53	WO 98/13523	04/1998	PCT				
	54	WO 98/40726	09/1998	PCT				
	55	WO 98/50782	11/1998	PCT				
	56	WO 98/53093	11/1998	PCT				
	57	WO 98/53300	11/1998	PCT				
	58	WO 99/18434	04/1999	PCT				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
BF	59	Drmanac, et al. <u>Sequencing by Hybridization</u> , <i>Automated DNA Sequencing and Analysis</i> ed. M. Adams, C. Fields and J. Venter (1994)
	60	Ferguson et al., <u>A Fiber-Optic DNA Biosensor Microarray for the Analysis of Gene Expression</u> , <i>Nature Biotech</i> 14:1681-1684 (1996)
	61	Fuh et al., <u>Single Fibre Optic Fluorescence pH Probe</u> , <i>Analyst</i> 112:1159-1163 (1987)
	62	Healey et al., <u>Improved Fiber-Optic Chemical Sensor for P nicillin</u> , <i>Anal. Chem.</i> 67(24):4471-4476

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BF	63	5,516,635	05/1996	Ekins et al.			
	64	5,565,324	10/1996	Still et al.			
	65	5,573,909	11/1996	Singer et al.			
	66	5,575,849	11/1996	Honda et al.			
	67	5,633,972	05/1997	Walt et al.			
	68	5,639,803	06/1997	Dower et al.			
	69	5,656,241	08/1997	Seifert et al.			
	70	5,690,894	11/1997	Pinkel et al.			
	71	5,814,524	10/1998	Walt			
	72	5,830,711	11/1998	Barany et al.			

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							YES	NO
BF	73	WO 99/60170	11/1999	PCT				
	74	WO 99/67414	12/1999	PCT				
	75	WO 99/67641	12/1999	PCT				
	76	WO 00/04372	01/2000	PCT				
	77	WO 00/13004	03/2000	PCT				
	78	WO 00/16101	03/2000	PCT				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
BF	79	Healey et al., <u>Development of a Penicillin Biosensor Using a Single Optical Imaging Fiber</u> , <i>SPIE Proc.</i> 2388:568-573 (1995)
	80	Healey et al., <u>Fiberoptic DNA Sensor Array Capable of Detecting Point Mutations</u> , <i>Analytical Biochem.</i> 251:270-279 (1997)
	81	Hirschfeld et al., <u>Laser-Fiber-Optic Optrode for Real Time In Vivo Blood Carbon Dioxide Level Monitoring</u> , <i>J. of Lightwave Tech.</i> LT-5(7):1027-1033 (1987)
	82	Iannone et al., <u>Multiplexed Single Nucleotide Polymorphism Genotyping...</u> , <i>Cytometry</i> 39:131-140 (2000)

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BF	83	5,840,256	11/1998	Demers et al.			
	84	5,854,684	12/1998	Stabile et al.			
	85	5,863,708	01/1999	Zanzucchi et al.			
	86	5,863,722	01/1999	Brenner			
	87	5,888,723	03/1999	Sutton et al.			
	88	5,900,481	05/1999	Lough et al.			
	89	5,679,524	10/1997	Nikiforov et al.			
	90	5,856,083	01/1999	Chelsky et al.			
	91	5,858,732	01/1999	Solomon et al.			
	92	6,013,456	01/2000	Akgavan-Tafti			

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BF	93	WO 00/39587	07/2000	PCT				
↓	94	WO 00/47996	08/2000	PCT				
	95	WO 00/48000	09/2000	PCT				
	96	WO 00/58516	10/2000	PCT				
	97	WO 00/63437	10/2000	PCT				
	98	WO 00/71243	11/2000	PCT				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
BF	99	Michael et al., <u>Making Sensors out of Disarray: Optical Sensor Microarrays</u> , <i>Proc. SPIE</i> 3270:34-41 (1998)
	100	Michael et al., <u>Randomly Ordered Addressable High-Density Optical Sensor Arrays</u> , <i>Anal. Chem.</i> 70(7):1242-1248 (1998)
	101	Michael et al., <u>Fabrication of Micro-and Nanostructures Using Optical Imaging Fibers and Their Use as Chemical Sensors</u> , <i>Proc. 3rd Intl. Symp. Microstructures and Microfabricated Systems</i> , ed. P.J. Hesketh, et al. v. 95-7, Electrochem. Soc., 152-157 (1997)
	102	Mignani et al., <u>In-Vivo Biomedical Monitoring by Fiber-Optic Systems</u> , <i>J. of Lightwave Tech.</i> 13(7):1396-1406 (1995)

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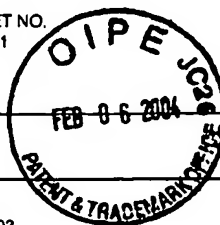
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BF	103	6,023,540	02/2000	Walt et al.			
	104	6,027,889	02/2000	Barany et al.			
	105	6,051,380	04/2000	Sosnowski et al.			
	106	6,054,564,	04/2000	Barany et al.			
	107	6,083,763	07/2000	Balch			
	108	6,110,678	08/2000	Weisburg et al.			
	109	6,129,896	10/2000	Noonan et al.			
	110	6,172,218	01/2001	Brenner			
	111	6,251,639	06/2001	Kurn			
V	112	6,268,148	07/2001	Barany et al.			

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							YES	NO
BF	113	WO 00/71992	11/2000	PCT				
	114	WO 00/71995	11/2000	PCT				
	115	WO 00/75373	12/2000	PCT				
V	116	EP 0 269 764	06/1988	EP				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)		
BF	117	Pantano et al., <u>Ordered Nanowell Arrays</u> , <i>Chem. Mater.</i> 8(12):2832-2835 (1996)	
	118	Peterson et al., <u>Fiber-Optic Sensors for Biomedical Applications</u> , <i>Science</i> 13:123-127 (1984)	
	119	Peterson et al., <u>Fiber-Optic Ph Probe for Physiological Use</u> , <i>Anal. Chem.</i> 52:864-869 (1980)	
	120	Piunno et al, <u>Fiber-Optic DNA Sensor for Fluorometric Nucleic Acid Determination</u> , <i>Anal. Chem.</i> 67:2635-2643 (1995)	
V	121	Pope, <u>Fiber Optic Chemical Microsensors Employing Optically Active Silica Micr sph r s</u> , <i>SPIE</i> , 2388:245-256 (1995)	

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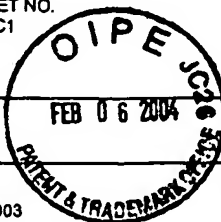
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BF	122	2002/0132241	09/2002	Fan et al.			
	123	5,466,319	11/1995	Zager et al.			
	124	6,327,410	12/2001	Walt et al.			
	125	6,342,349	01/2002	Virtanen			
	126	5,254,477	10/1993	Walt et al.			
	127	5,518,883	05/1996	Soini			
	128	6,008,892	12/1999	Kain et al.			
	129	6,198,577	03/2001	Kedar			
	130	5,649,924	07/1997	Everett			

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BF	131	Shoemaker et al., <u>Quantitative phenotypic analysis of yeast deletion mutants using a highly parallel molecular bar-coding strategy</u> , <i>Nature Genetics</i> 14:450-456 (1996).
BF	132	Strachan et al., <u>A Rapid General Method for the Identification of PCR Products Using a Fibre-Optic Biosensor and Its Application to the Detection of Listeria</u> , <i>Letters in Applied Microbio.</i> 21:5-9 (1995)
BF	133	Walt, <u>Fiber Optic Imaging Sensors</u> , <i>Accounts of Chem. Research</i> 31(5):267-278 (1998)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Kahn et al.	GROUP 3747
		FILING DATE August 6, 2003	



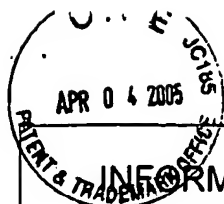
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
BF	134	Walt, <u>Fiber-Optic Sensors for Continuous Clinical Monitoring</u> , <i>Proc. IEEE</i> , 80(6):903-911 (1992)
BF	135	Lyamichev et al., <u>Polymorphism Identification and quantitative detection of genomic DNA by invasive cleavage of oligonucleotide probes</u> , <i>Nature Biotechnology</i> , 17:292-296 (1999)
BF	136	Barker et al., <u>Development and Cellular Applications of Fiber Optic Nitric Oxide Sensors based on...</u> , <i>Analytical Chem.</i> 70(23) (1998)

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EXAMINER	/Betty Forman/	DATE CONSIDERED	04/18/2006
*EXAMINER: INITIAL IF CITATION CONSIDERED. WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.			



PTO/SB/08 Equivalent

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

<i>(Multiple sheets used when necessary)</i>	Application No.	10/638,173
	Filing Date	August 6, 2003
	First Named Inventor	Robert Kain
	Art Unit	3747
SHEET 1 OF 1	Examiner	Not Yet Assigned
	Attorney Docket No.	ILLINC.026C1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
BF	1	2003/0162210 A1	08.28.2003	Chetverin et al.	

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Examiner Signature /Betty Forman/	Date Considered 04/18/2006
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